

FIG. 1

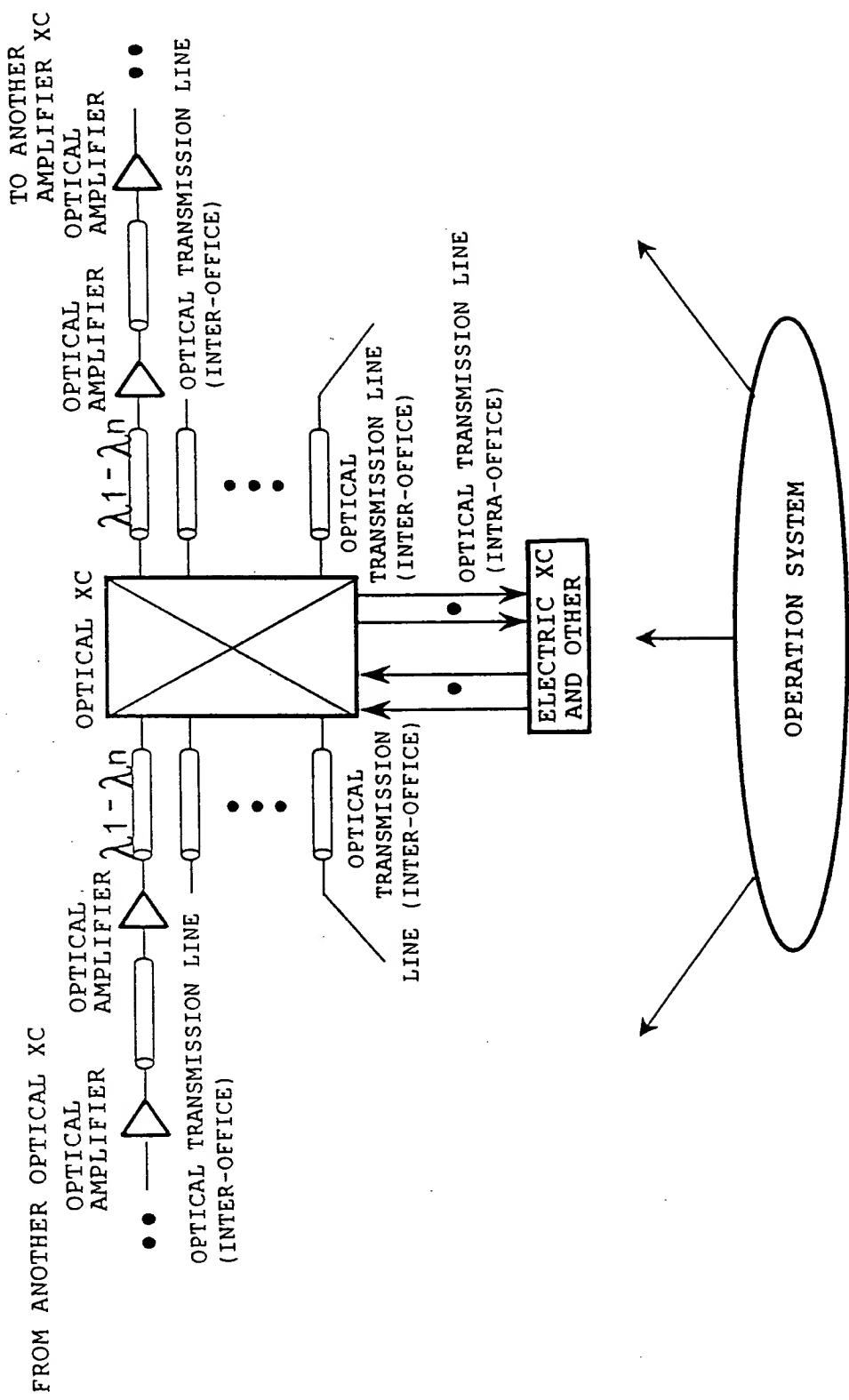
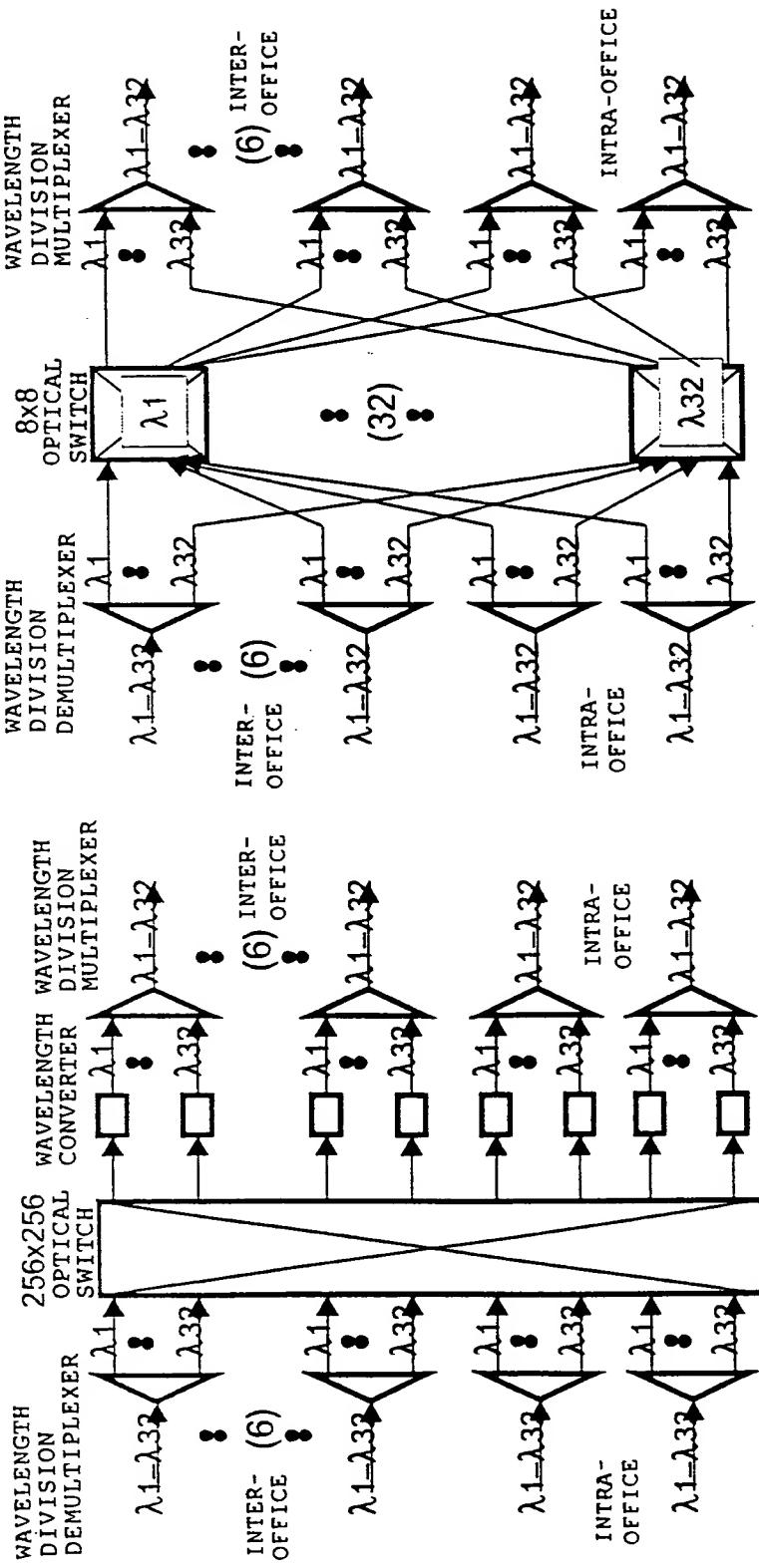


FIG. 2



(a) WAVELENGTH CONVERTING TYPE

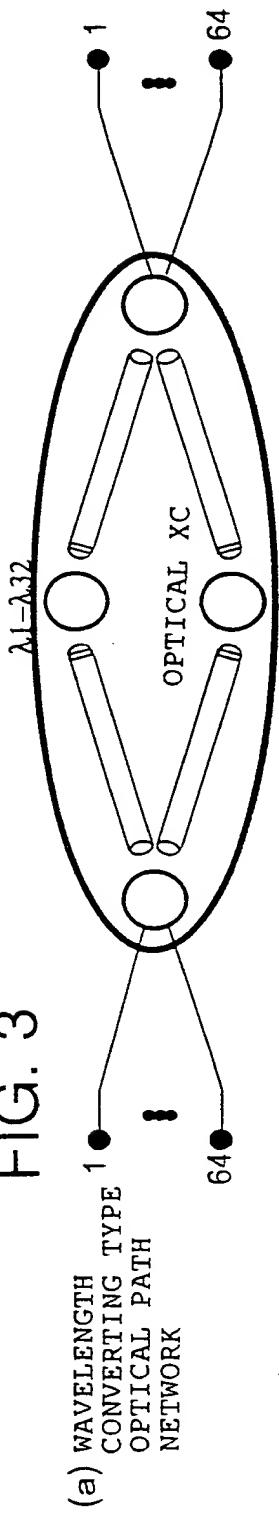
(b) WAVELENGTH FIXING TYPE

※ INTER-OFFICE LINK NUMBER: 6

※ INTRA-OFFICE LINK NUMBER: 2

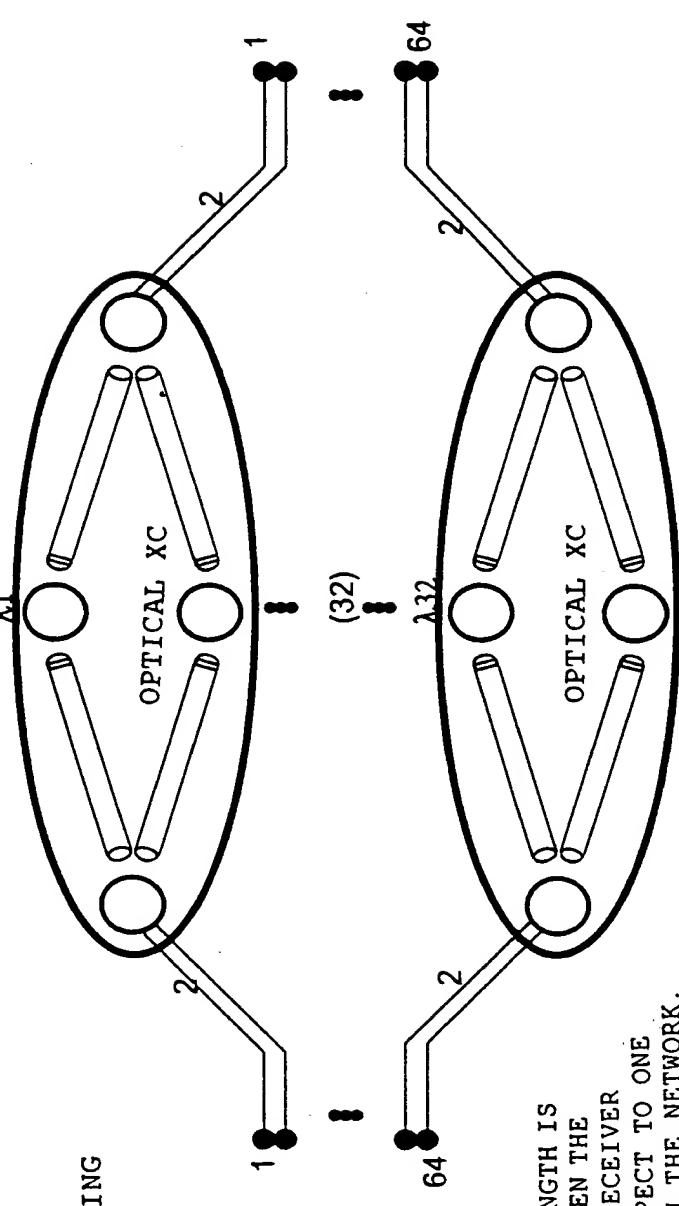
※ WAVELENGTH MULTIPLEXED NUMBER: 32

FIG. 3



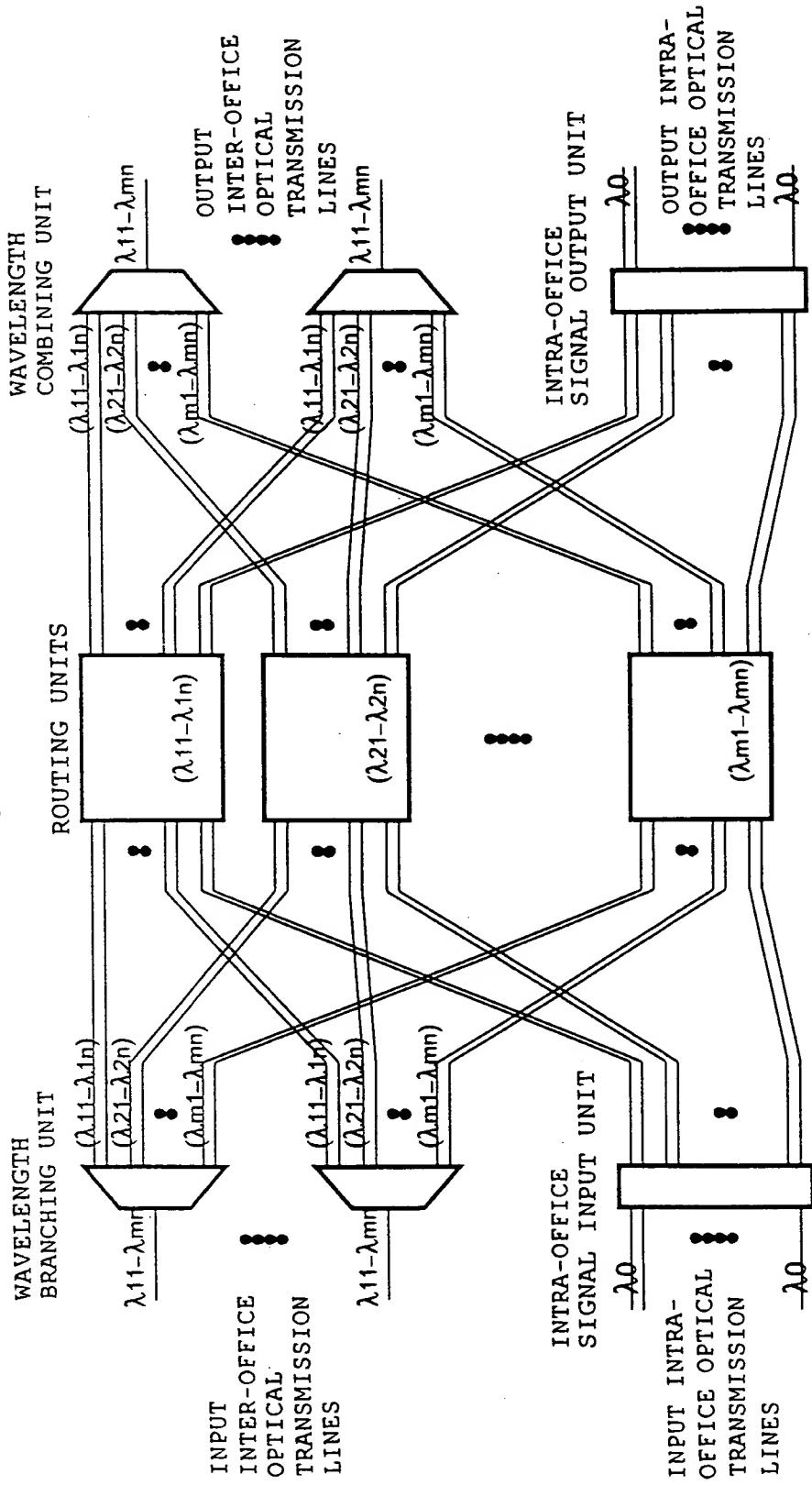
※ THE WAVELENGTHS ARE ALLOCATED IN THE LINK-BY-LINK BASIS BETWEEN THE SENDER AND RECEIVER NODES WITH RESPECT TO ONE OPTICAL PATH IN THE NETWORK.

(b) WAVELENGTH FIXING TYPE OPTICAL PATH NETWORK



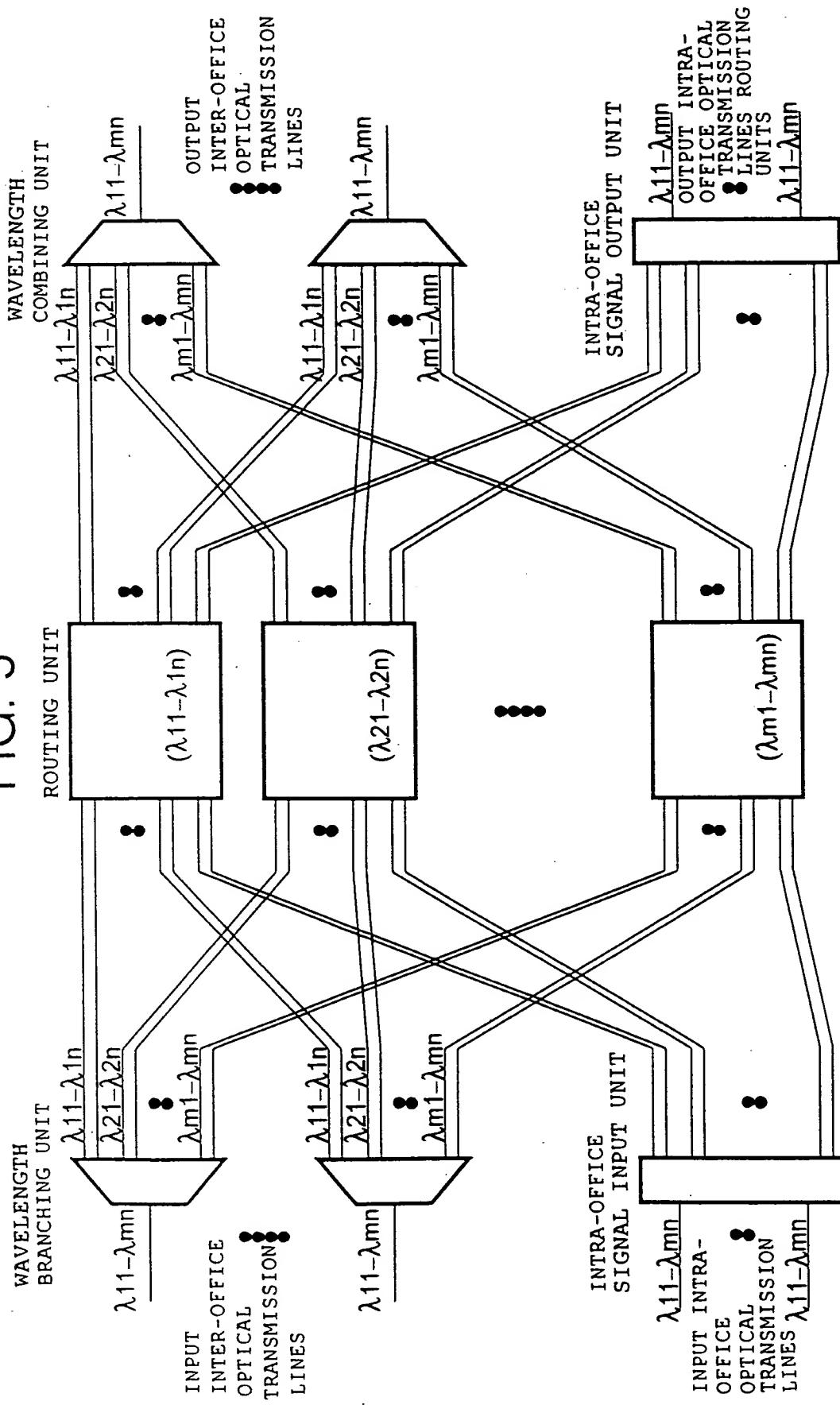
※ A SINGLE WAVELENGTH IS ALLOCATED BETWEEN THE SENDER AND THE RECEIVER NODES WITH RESPECT TO ONE OPTICAL PATH IN THE NETWORK.

FIG. 4



- ※ SUBDIVIDED INTO "M" PIECES OF ROUTING UNITS
- ※ IN UNIT OF "N" WAVELENGTHS
- ※ PROVIDED WITH WAVELENGTH CONVERTER EACH OF THE RESPECTIVE

FIG. 5

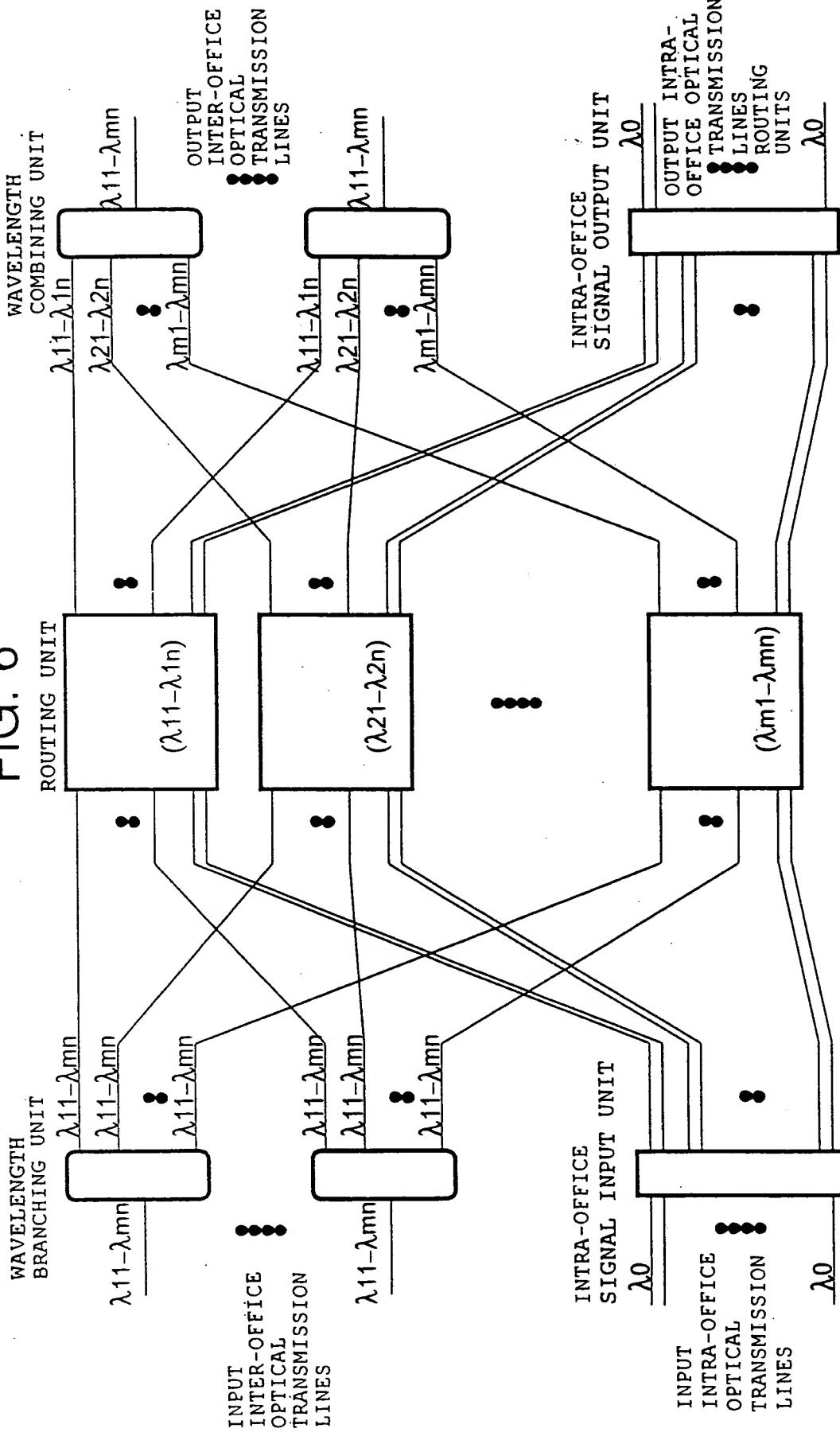


SUBDIVIDED INTO "M" PIECES OF ROUTING UNITS

※ IN UNIT OF "N" WAVELENGTHS

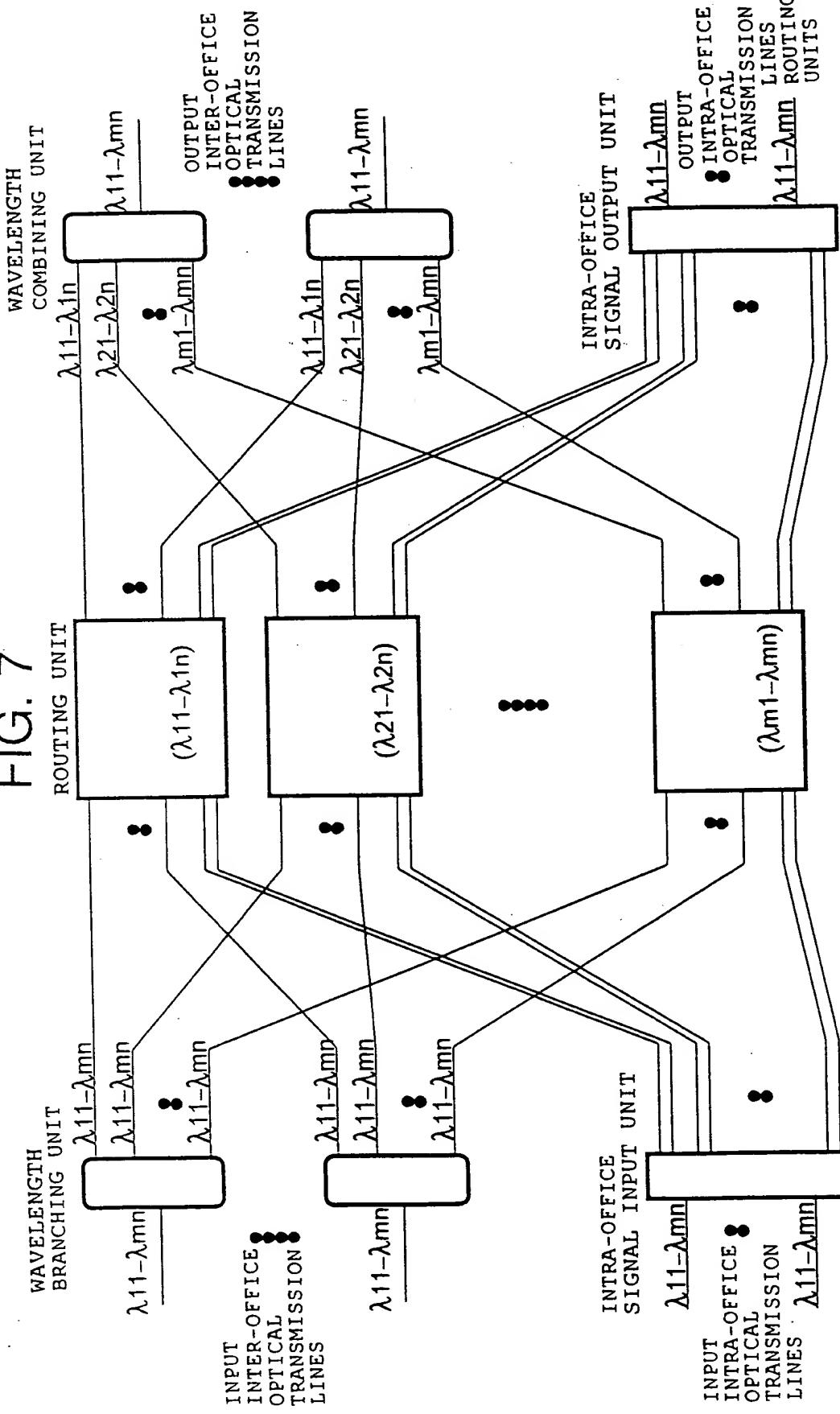
※ PROVIDED WITH WAVELENGTH CONVERTER EACH OF THE RESPECTIVE

FIG. 6



☀ SUBDIVIDED INTO "M" PIECES OF ROUTING UNITS  
 ☀ IN UNIT OF "N" WAVELENGTHS  
 ☀ PROVIDED WITH WAVELENGTH CONVERTER EACH OF THE RESPECTIVE

FIG. 7



- ☒ SUBDIVIDED INTO "M" PIECES OF ROUTING UNITS
- ☒ IN UNIT OF "N" WAVELENGTHS
- ☒ PROVIDED WITH WAVELENGTH CONVERTER EACH OF THE RESPECTIVE

FIG. 8

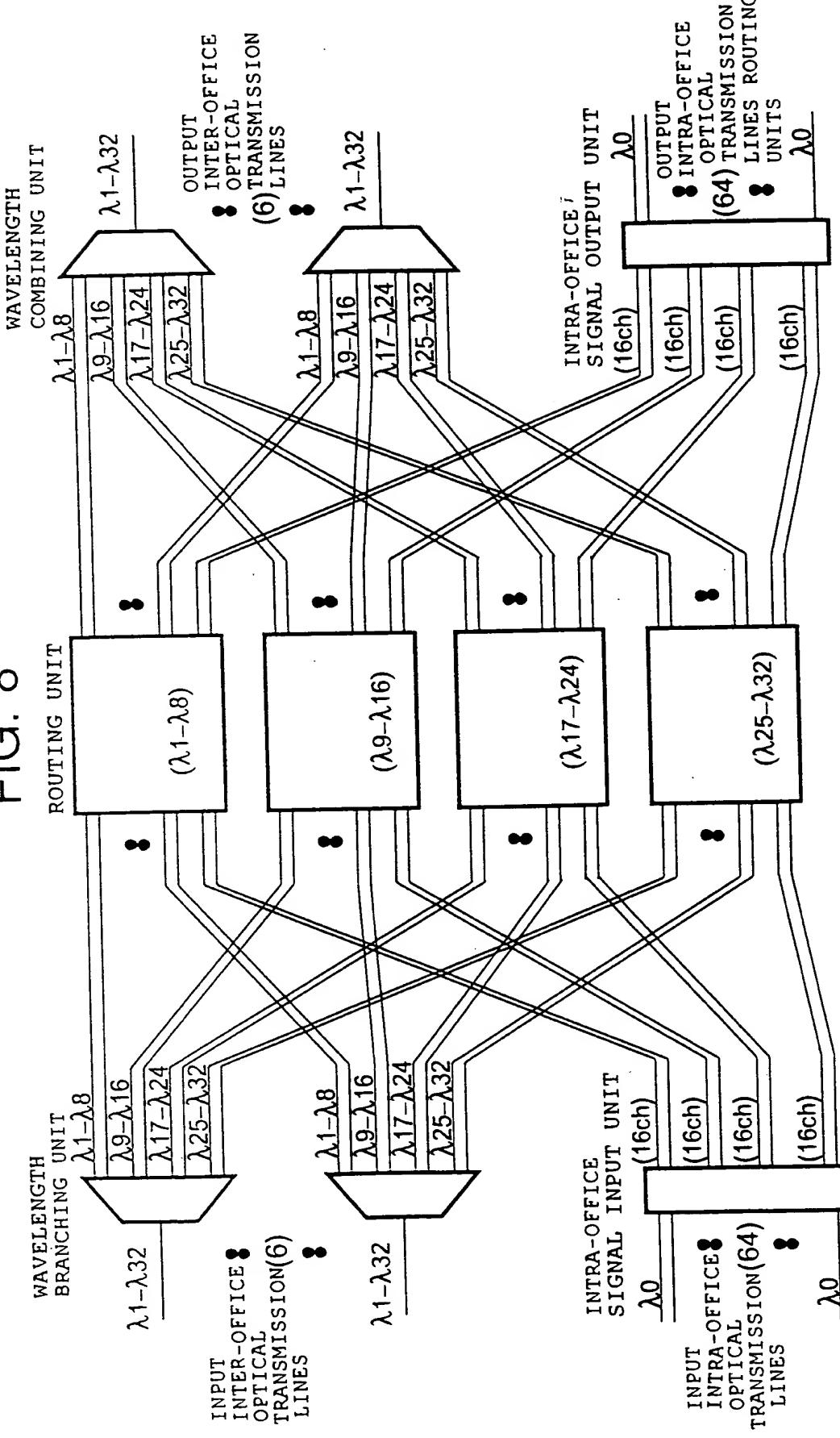
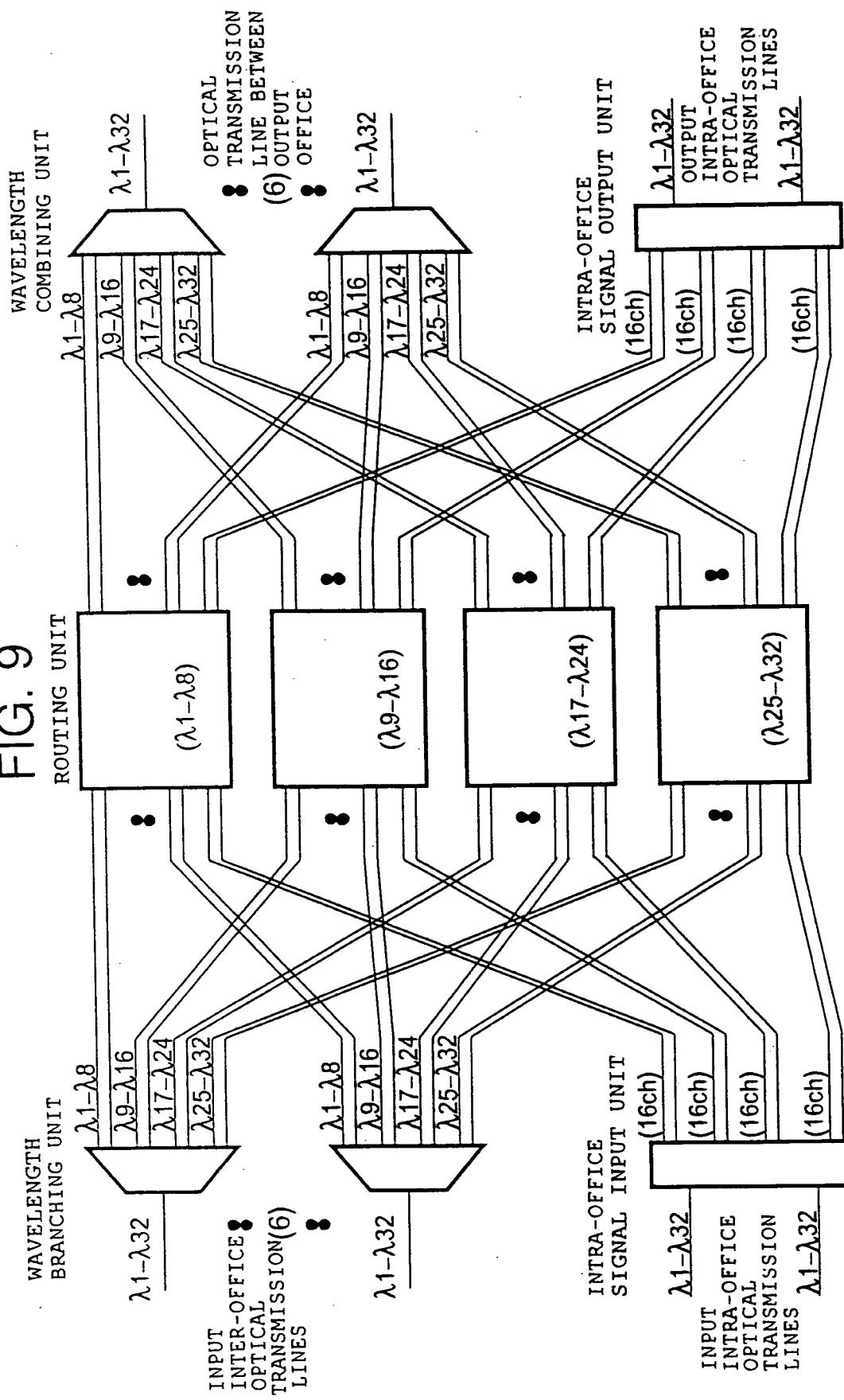


FIG. 8 SUBDIVIDED BY 4 PIECES OF ROUTING UNITS IN UNIT OF 8 WAVELENGTHS

※ (WAVELENGTH NUMBER : 32)

※ INTRA-OFFICE OPTICAL SIGNAL CHANNEL NUMBER : 192  
※ INTRA-OFFICE OPTICAL SIGNAL CHANNEL NUMBER : 64

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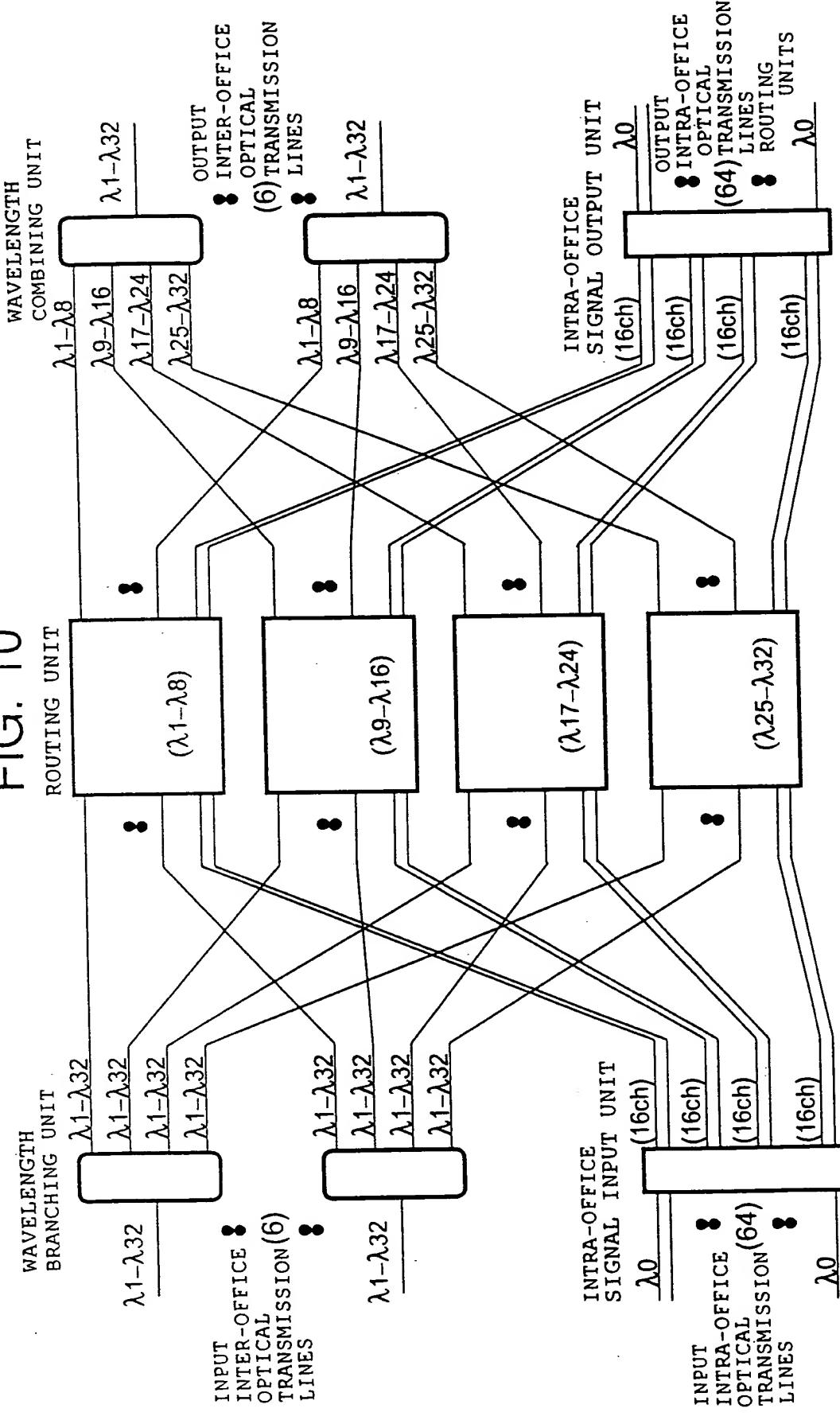


#### ----- 1. DIRECTOR'S ROUTING ----- ----- 8 WAVELENGTHS

XX SUBDIVIDED BY 4 PIECES (WAVELENGTH NUMBER : 32)

WAVELONG NODER :  $\Sigma$ , SIGNAL CHANNEL NUMBER : 192  
INTER-OFFICE OPTICAL SIGNAL CHANNEL NUMBER : 64

FIG. 10



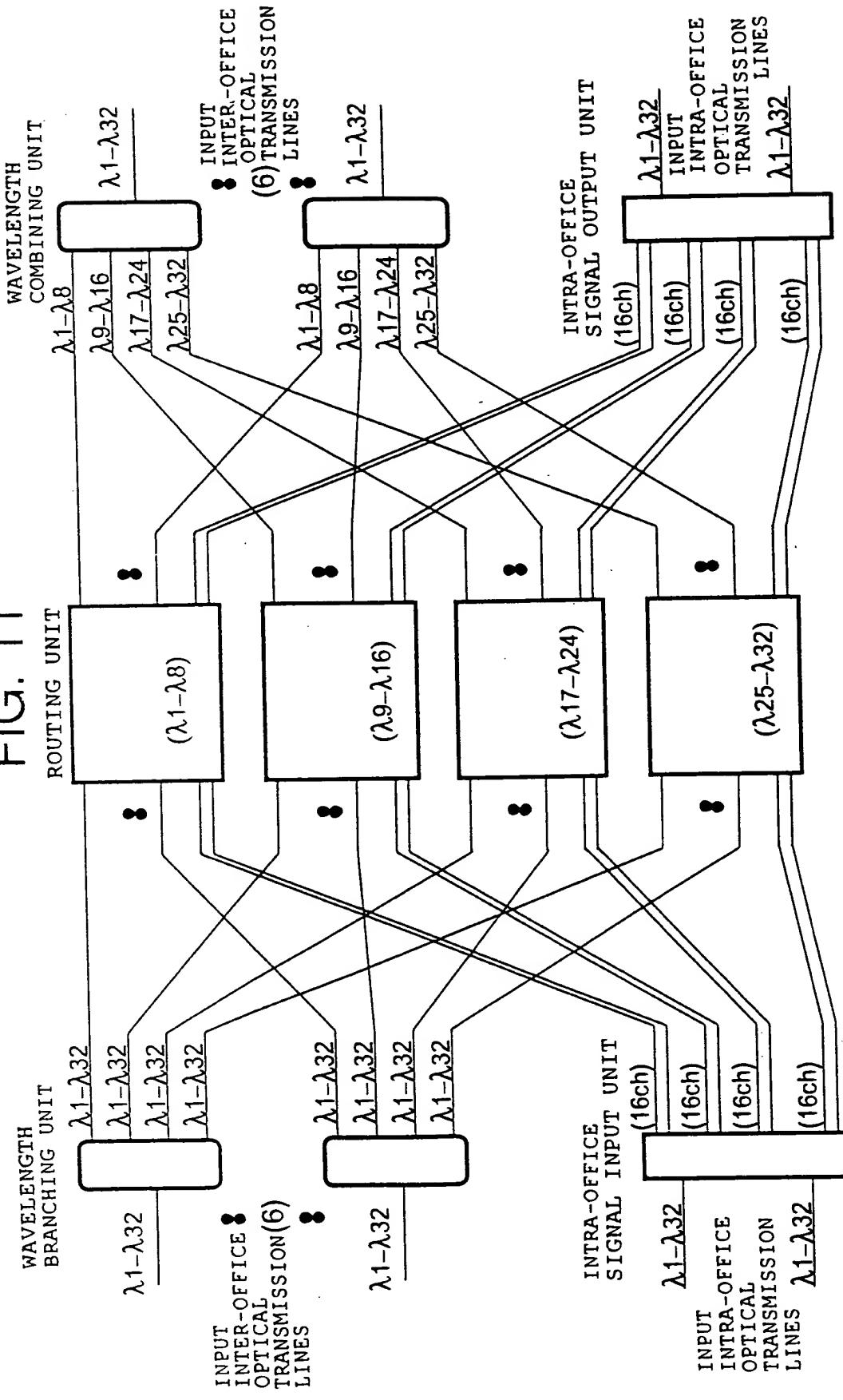
SUBDIVIDED BY 4 PIECES OF ROUTING UNITS IN UNIT OF 8 WAVELENGTHS

✖ (WAVELENGTH NUMBER : 32)

✖: INTER-OFFICE OPTICAL SIGNAL CHANNEL NUMBER : 192

✖: INTRA-OFFICE OPTICAL SIGNAL CHANNEL NUMBER : 64

FIG. 11

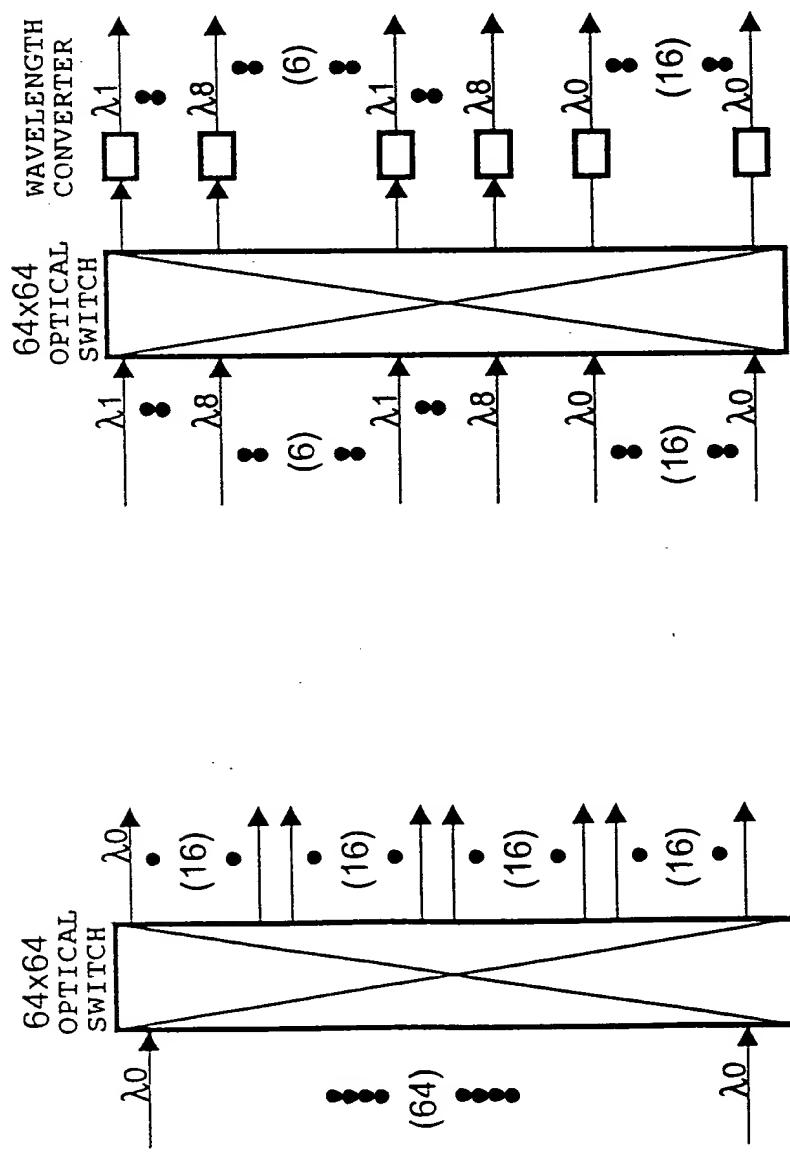


SUBDIVIDED BY 4 PIECES OF ROUTING UNITS IN UNIT OF 8 WAVELENGTHS

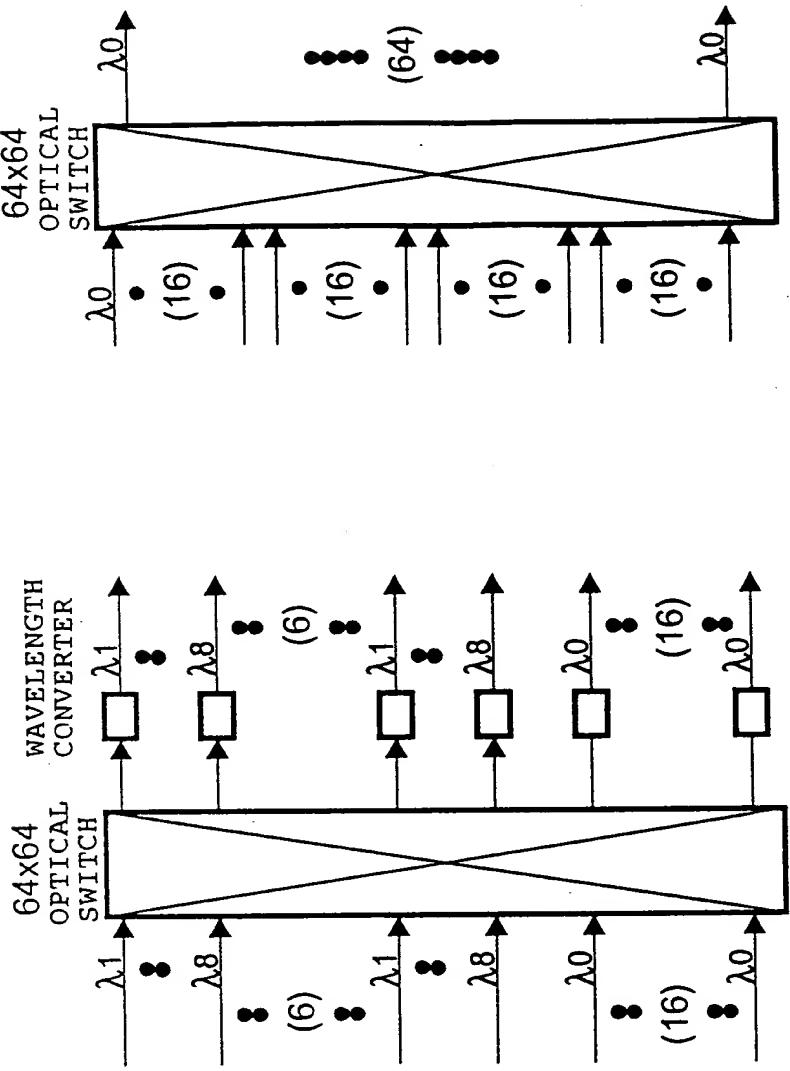
※ (WAVELENGTH NUMBER : 32)

※ INTER-OFFICE OPTICAL SIGNAL CHANNEL NUMBER : 192  
※ INTRA-OFFICE OPTICAL SIGNAL CHANNEL NUMBER : 64

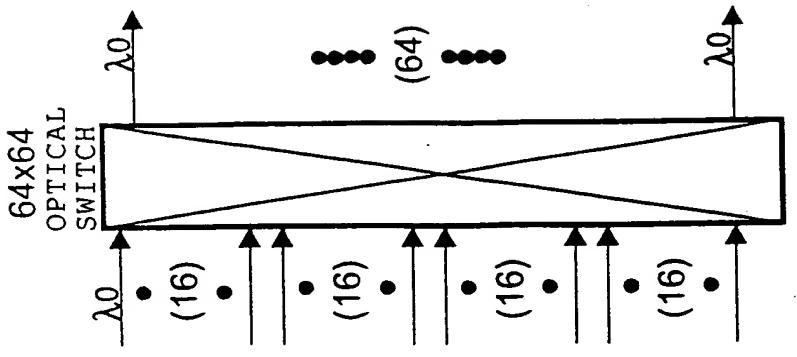
FIG. 12



(a) INTRA-OFFICE SIGNAL INPUT UNIT

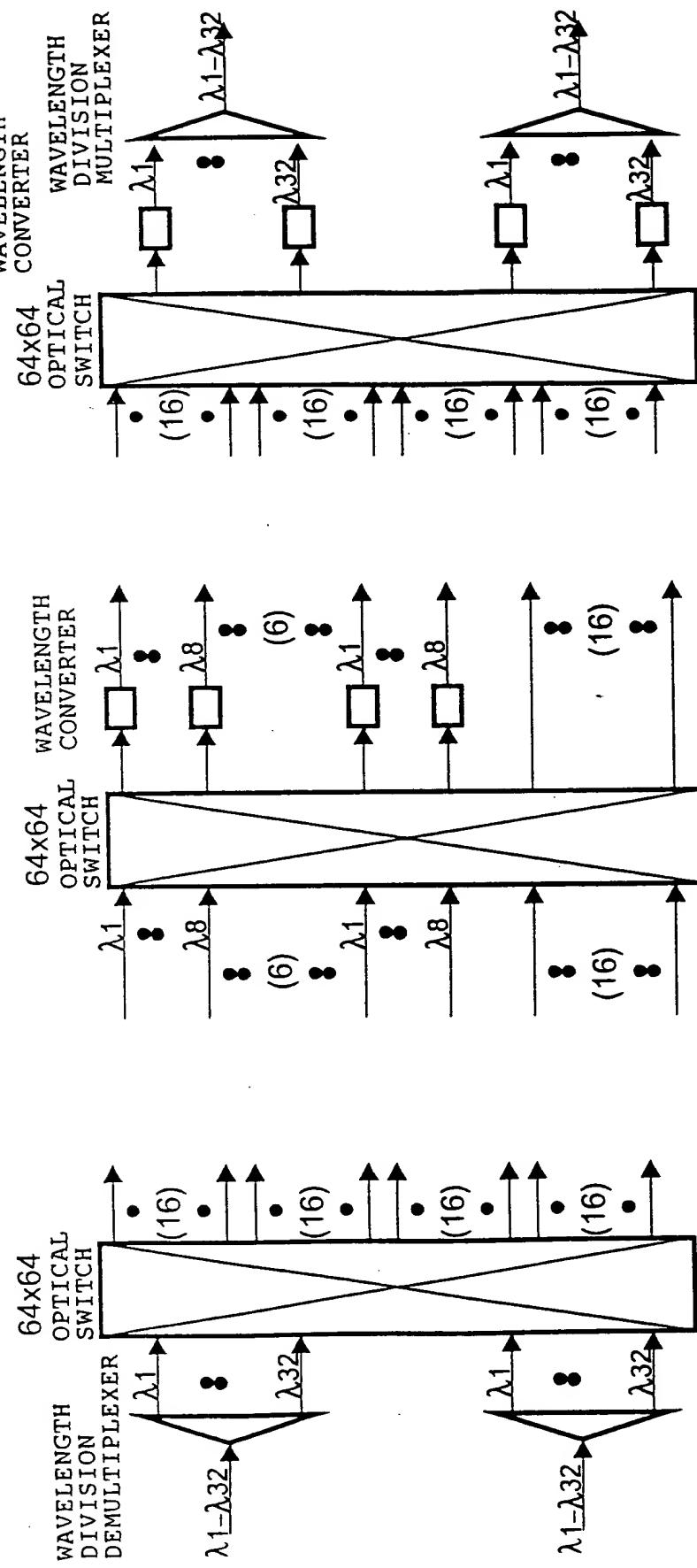


(b) ROUTING UNIT



(c) INTRA-OFFICE SIGNAL OUTPUT UNIT

FIG. 13



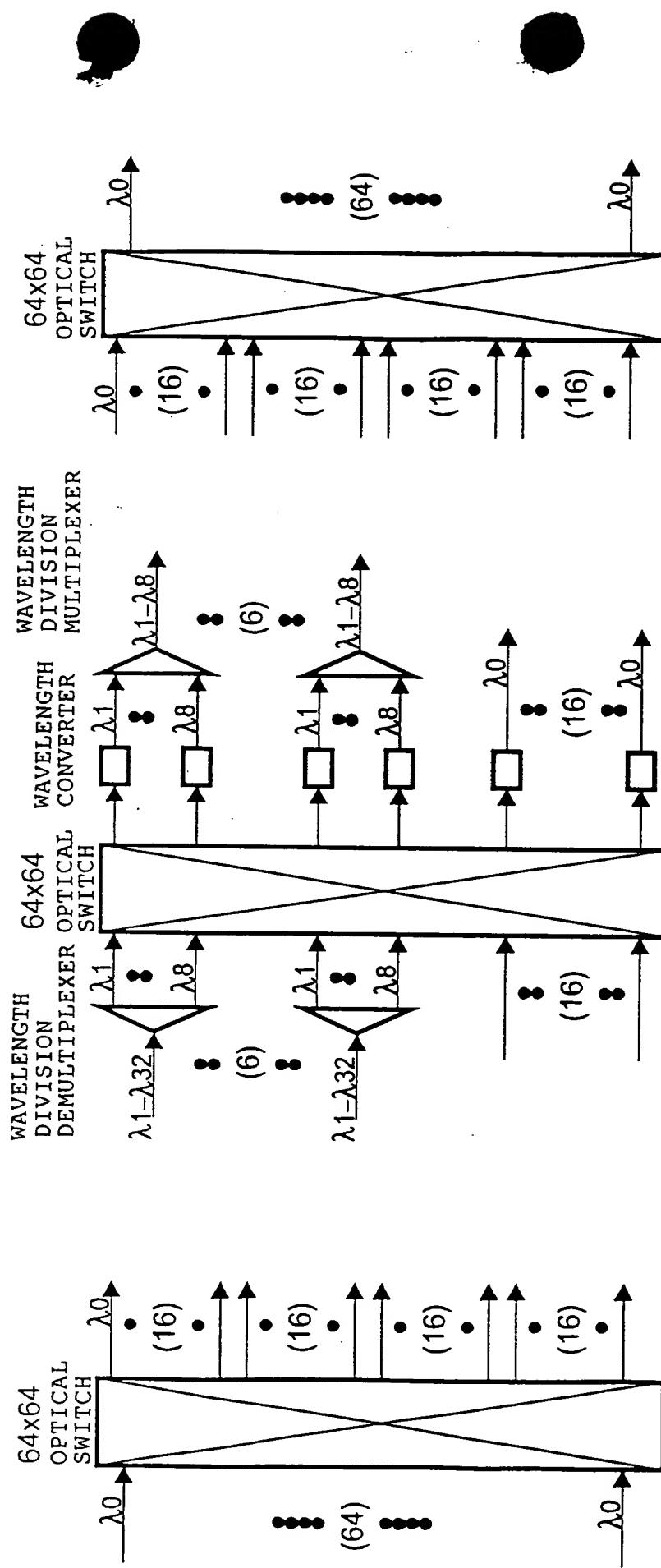
※ ROUTING UNIT FOR  $\lambda_1$  TO  $\lambda_8$

(a) INTRA-OFFICE SIGNAL INPUT UNIT

(b) ROUTING UNIT

(c) INTRA-OFFICE SIGNAL OUTPUT UNIT

FIG. 14



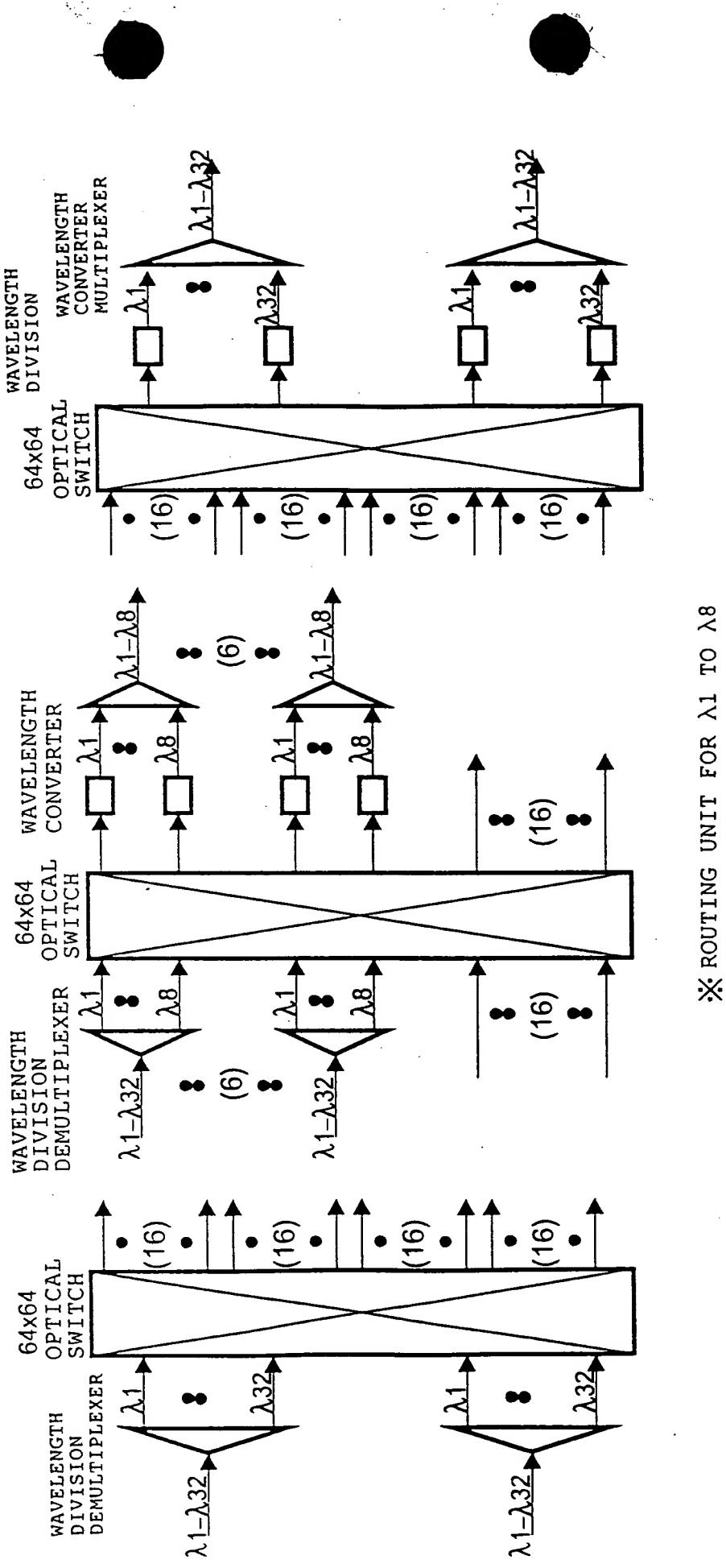
※ ROUTING UNIT FOR  $\lambda_1$  TO  $\lambda_8$

(b) ROUTING UNIT

(c) INTRA-OFFICE SIGNAL  
OUTPUT UNIT

(a) INTRA-OFFICE SIGNAL  
INPUT UNIT

FIG. 15

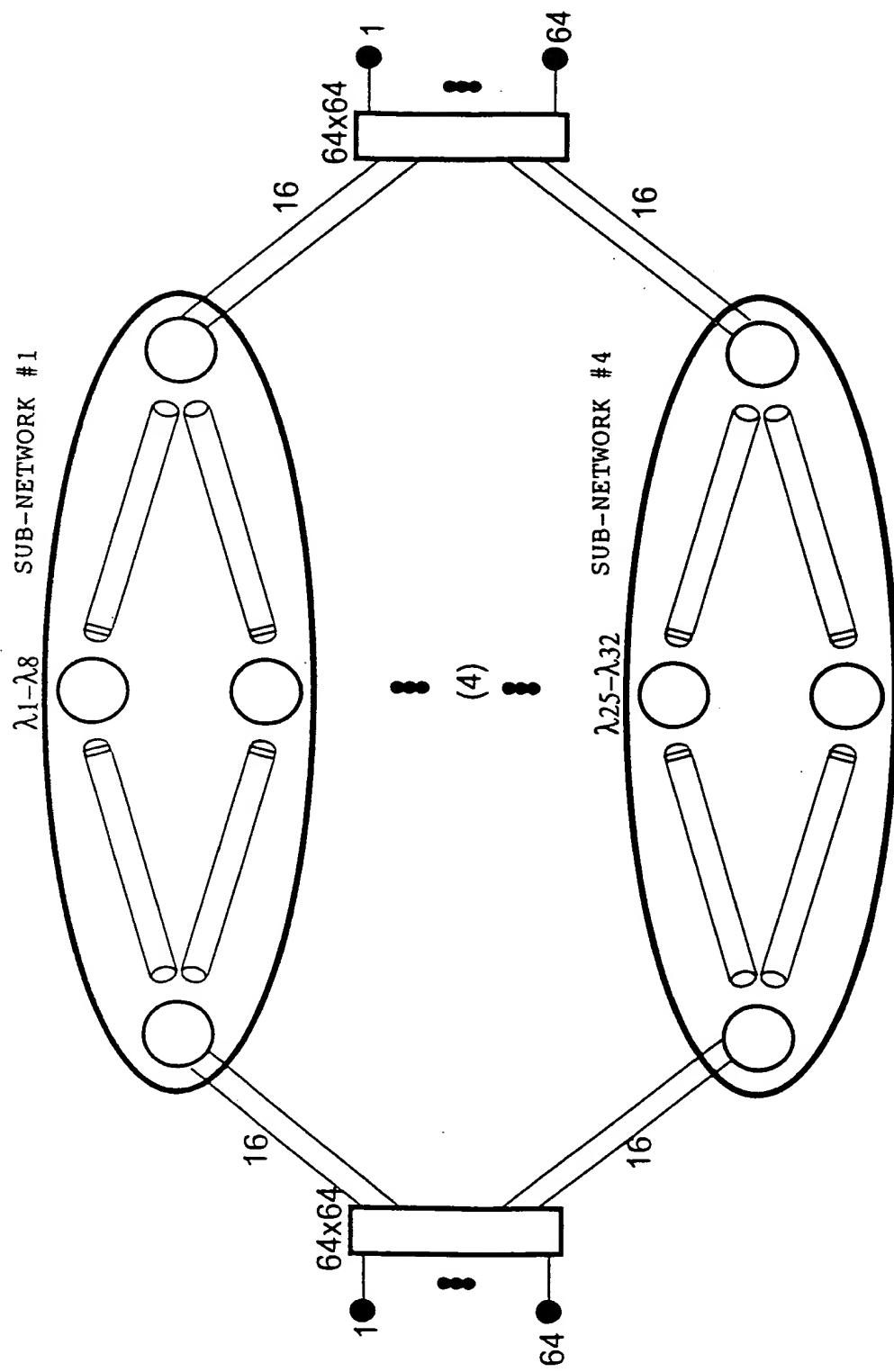


(a) INTRA-OFFICE SIGNAL  
INPUT UNIT

(b) ROUTING UNIT

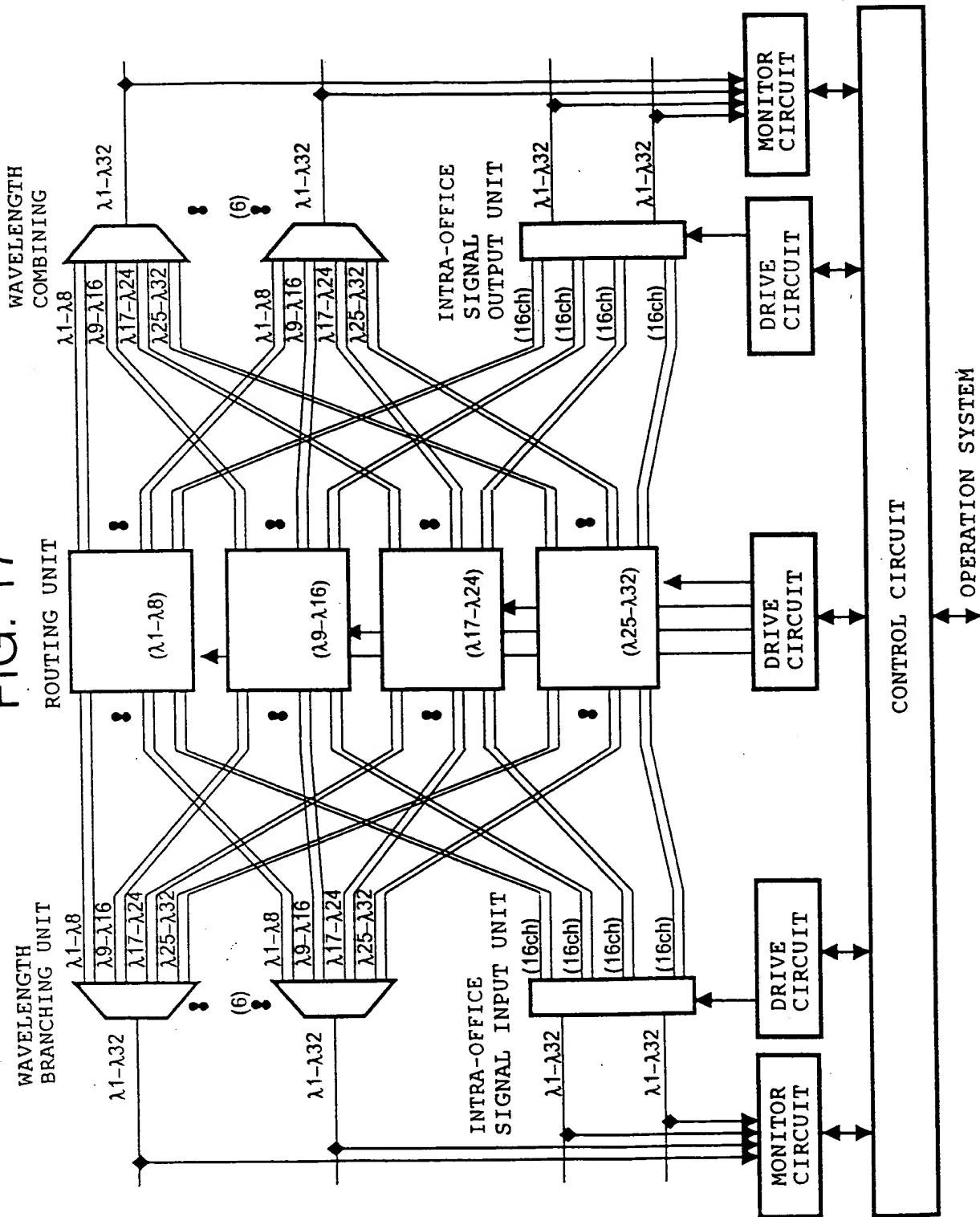
(c) INTRA-OFFICE SIGNAL  
OUTPUT UNIT

FIG. 16

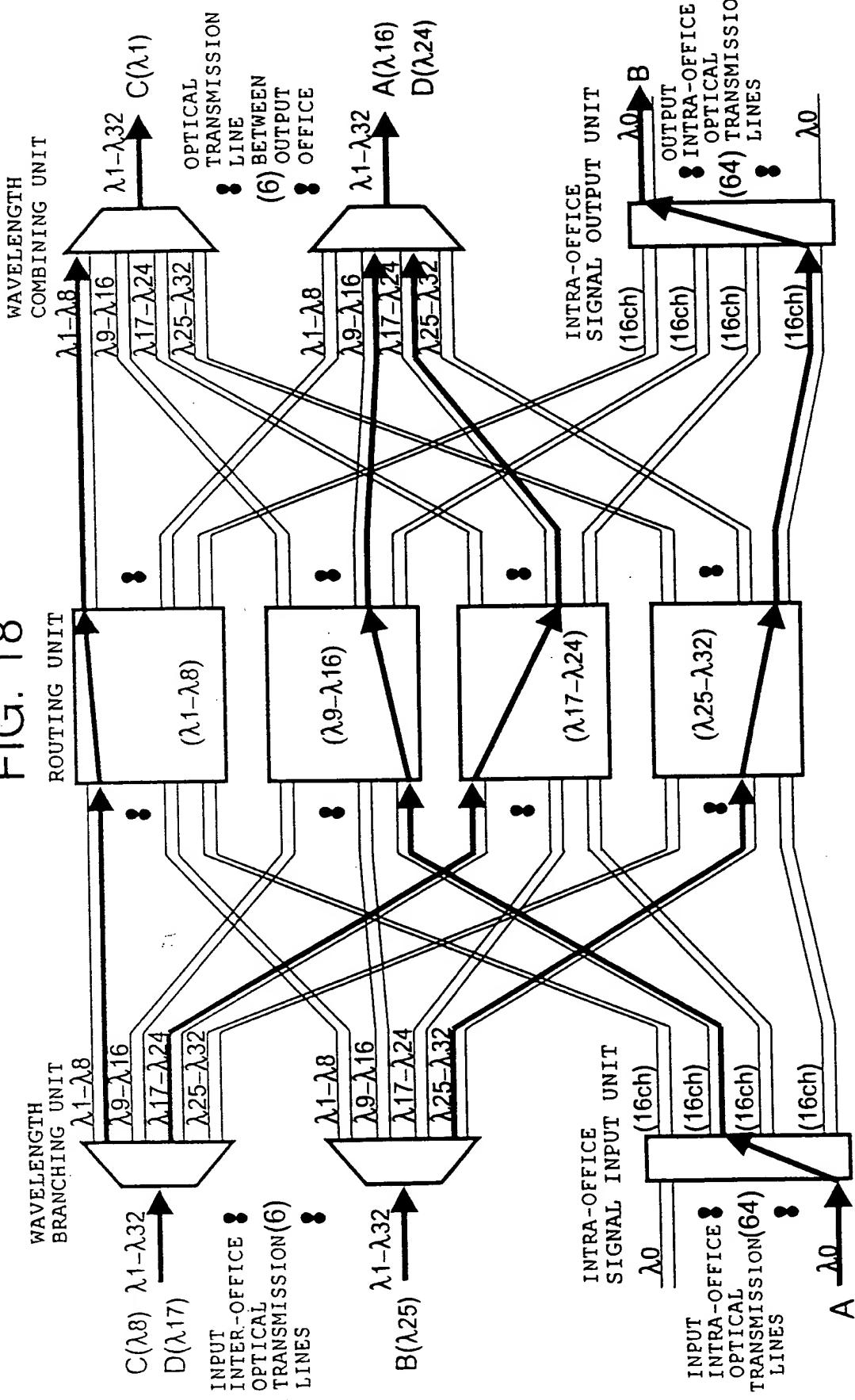


※ THE WAVELENGTHS ARE ALLOCATED IN THE LINK-BY-LINK BASIS IN THE SELECTED SUB-NETWORK BETWEEN THE SENDER AND THE RECEIVER NODES WITH RESPECT TO THE OPTICAL PATH IN THE NETWORK

FIG. 17



18  
FIG.

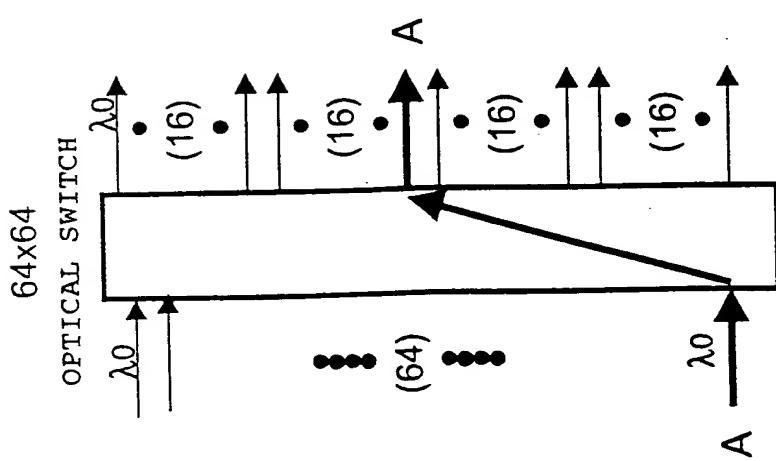


NUMBERED BY A PIECES OF ROUTING UNITS IN UNIT OF 8 WAVELENGTHS

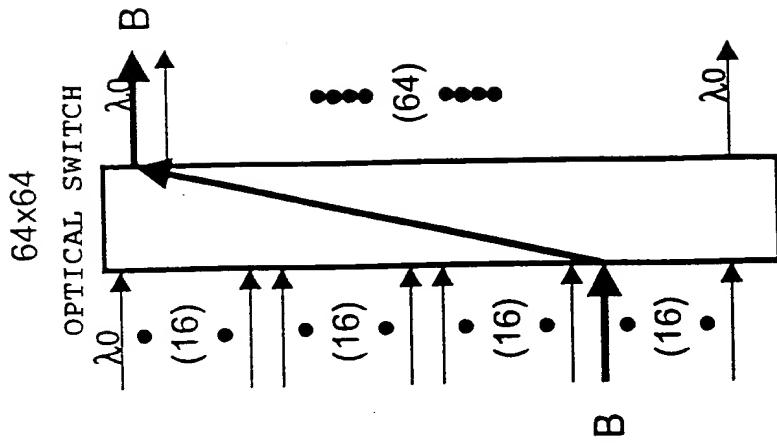
※ SUBDIVIDED BY 4 PIECES  
※ (WAVELENGTH NUMBER : 32)

※ INTER-OFFICE OPTICAL SIGNAL CHANNEL NUMBER : 192  
※ INTRA-OFFICE OPTICAL SIGNAL CHANNEL NUMBER : 64

FIG. 19

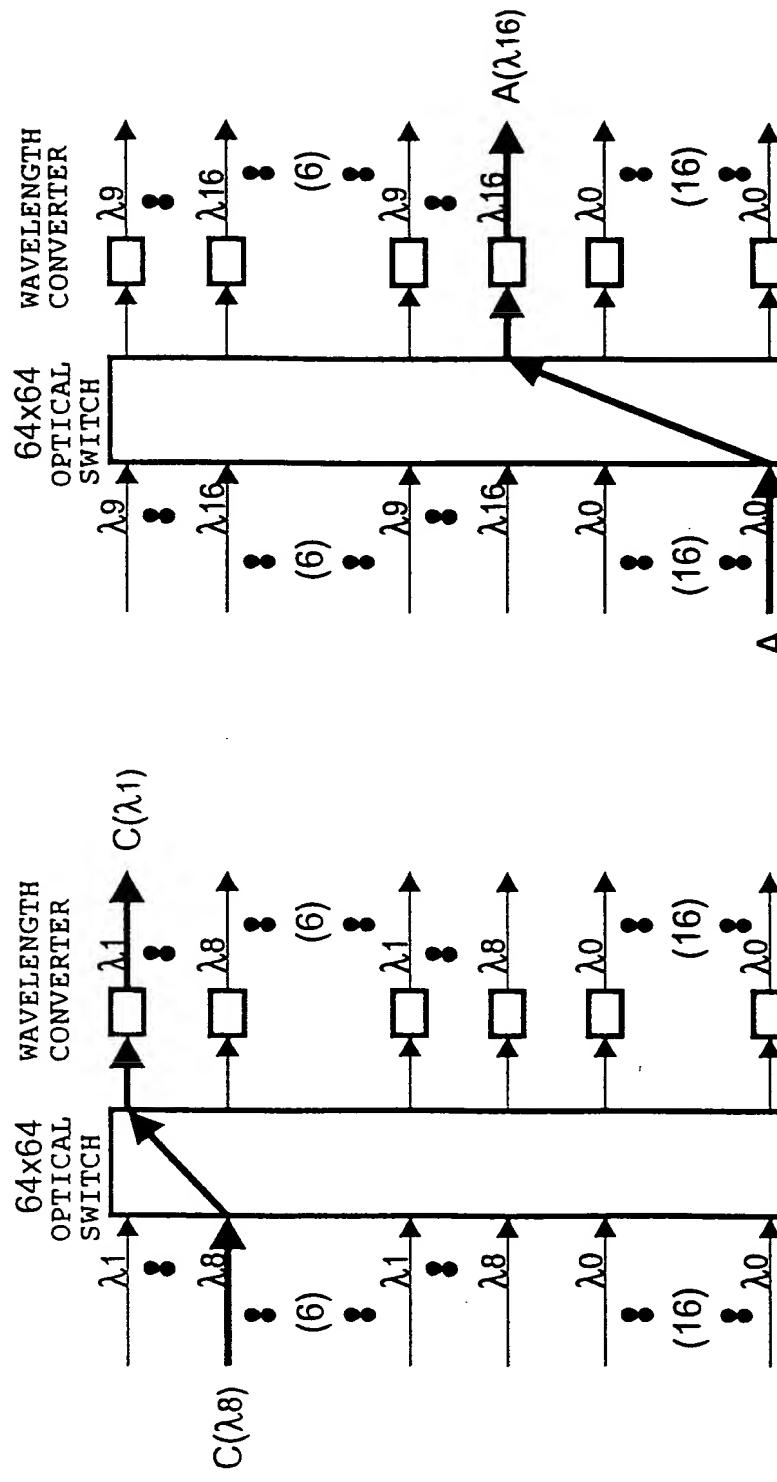


(a) INTRA-OFFICE SIGNAL INPUT UNIT



(b) INTRA-OFFICE SIGNAL  
OUTPUT UNIT

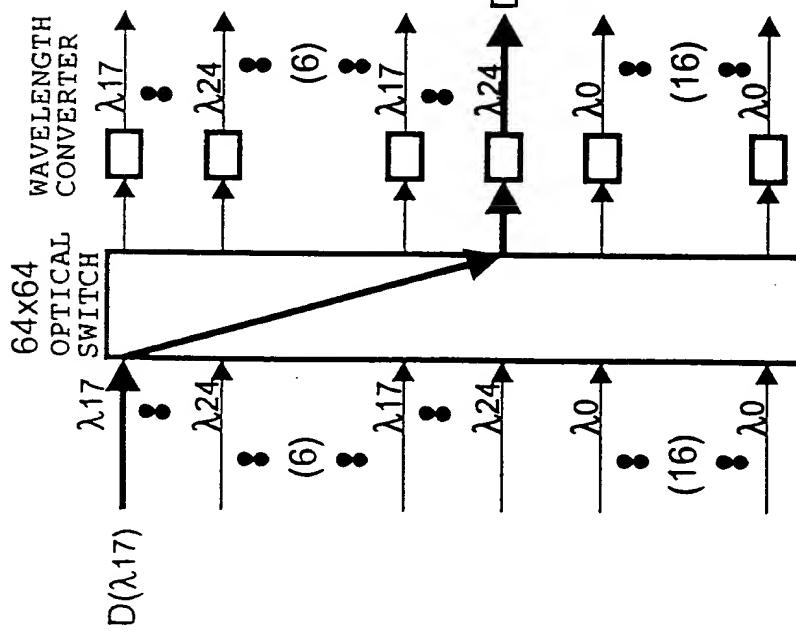
FIG. 20



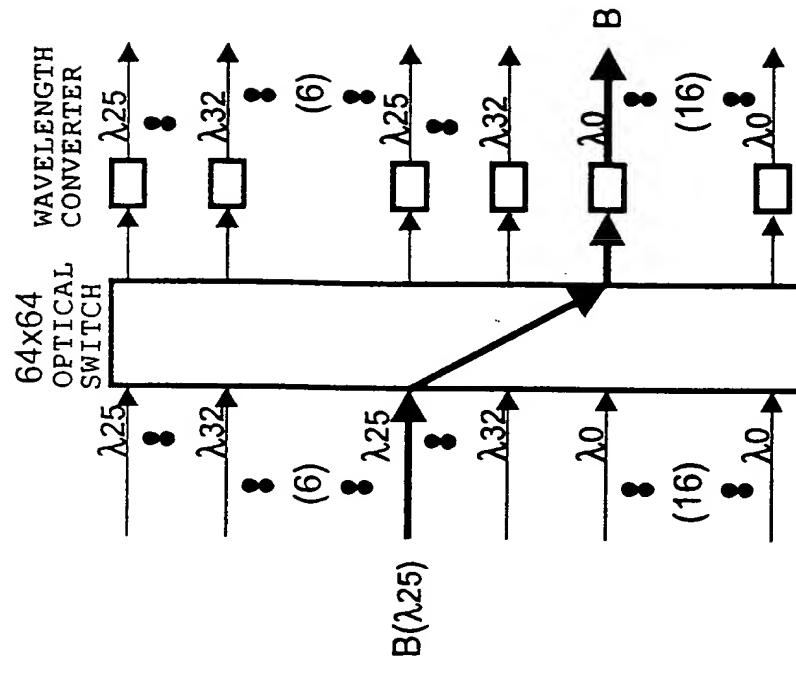
(a) ROUTING UNIT FOR  $\lambda_1$  TO  $\lambda_8$

(b) ROUTING UNIT FOR  $\lambda_9$  TO  $\lambda_{16}$

FIG. 21



(a) ROUTING UNIT FOR  $\lambda_{17}$  TO  $\lambda_{24}$



(b) ROUTING UNIT FOR  $\lambda$ 25 TO  $\lambda$ 32

FIG. 22

